

# Newspeak

The student newspaper of Worcester Polytechnic Institute

Volume 3, Number 23

Tuesday, February 3, 1976

Bicentennial Plan

## President's letter to Trustees

Dear Members:

The start of our country's bicentennial year forcibly reminds me that we are well into our second century of existence. The 15,000 people graduating from WPI in that 10 years have lived through and contributed greatly to a period when we changed from an agricultural to an industrial society, when the lives of people were lengthened more than in any previous age, and when society suddenly started to change more rapidly than man and his cultural behavior. One cannot but rejoice that our institution has taken the lead in educating people who are more likely to understand, adapt to, and control the new situations than are the graduates of most colleges today. You should be as proud to be a trustee of such an institution as I am to be its president. Meeting the resultant challenges to our continued ability to deliver the goods in education cannot help but be personally rewarding to each of us.

It is in that context that the events of the 1975-76 academic year should be read. The day to day problems that we deal with on campus may seem removed from the "real world," but in total they add up to a valuable and unique educational process.

*WPI Plan - "Steady State"*

This is the last year that students will graduate under our previous curriculum ("Non-Plan Students"). That means we now have projects, competency exams, and humanities sufficiencies fully on stream. It means that we have to deal with large numbers, with refinement of process, and with the possible let-down as we move into "steady state". But knowing our faculty and staff I see no let-up in the challenges they will pose us for support of new ideas and strengthening of present activities.

A very useful stimulus in this area is the second NSF Visiting Committee. You have seen the lengthy report of the first NSF Visiting Committee which served from fall 1972 through spring 1975. Our second committee met for an updating and "in-electrication" in mid-November and will meet once each spring for the next three years. Its members are: Dr. Harold Chestnut of the G.E. Research and Development Center; Dr. James Davis, Political Science Department of Washington University; John B. Gunn of the IBM Thomas J. Watson Research Center; Dr. Walter R. Lynn, Director of the School of Civil and Environmental Engineering, Cornell University; Thaddeus W. Tomkowitz of DuPont; and Prof. Martin Brown of the Graduate School of Public Policy at the University of California at Berkeley.

Exposing our activities to the informed and penetrating analyses of outstanding professionals like these is a salutary experience for all of us. Try it some time and see for yourself.

At the same time we have been carrying out a social-psychological study of the effects of the WPI Plan on students and faculty. Under Dr. Karen Cohen of the Educational Development Corporation very careful analysis has been made of our institution and comparisons made by both Clarkson College of Technology and Stevens Institute of Technology. One quote from her report:

"Since the Plan's inception five years ago and the beginning of this evaluation three years ago, it seems fair to say that the program is beginning to succeed in terms

institutions and the time spent in experiments and project work is greater than the amount spent in class. The WPI Plan is a feature which attracts students to the school, more prominently than do the programs at comparison engineering schools. The program also attracts a more heterogeneous group than the traditional WPI."

The full report is available to any who wish to read it.

Probably the biggest challenge of all, to you and to this administration, is contained in the final report of Dr. George Pake of Xerox, an NSF Committee member. He said:

"I urge the National Science Foundation to recognize what I believe to be a fact: a dollar spent sustaining the (to date) highly promising WPI Plan will provide more educational return than a dollar gambled on "wild-catting" for further viable educational reform... This calls for a balance between *sustaining* and *innovating* funding that few foundations, public or private, have seemed to me to be willing to strike!"

*Student Activities*

A most encouraging phenomenon is at least partly attributable to the Plan. Our Admissions Office has been flooded with applicants and interviews, more than 50 per cent over last year. Part of this must come from the dedicated and creative efforts of John Brandon and his colleagues. Part of it is a nationwide phenomenon - the move toward career or job-oriented courses of study. But the combination of efforts is a helpful one. It makes the challenge of selection, of financial aid, and of delivery of service very real. It helps us believe that our efforts are succeeding where they should, in the minds of the students we serve.

At the other end of the pipe line, the interviewing of June 1976 graduates is also active. A continuing flow of recruiters gives hope to our seniors and rewards to our faculty. One interviewer from a national company wrote me recently to repeat comments he had made in conversation:

"Interviewing your students calls for a slightly different, but much more enjoyable, approach than that used at other colleges. Thanks to their project work, I found the typical candidate to be more outgoing in describing his Worcester Polytechnic Institute experiences; more practical in his attitudes in a career; and really, much more "at home" with himself in terms of confidence in his abilities... Like other industrial representatives, I had some initial concern about whether or not the Plan would graduate fully qualified Chemical, Mechanical Engineers, etc. Based upon this past visit, I'm no longer worried and hope instead that the concept spreads to other, more rigid engineering curricula around the country."

This is not to say that we are perfect or that all our graduates will find jobs they want. But the opportunities seem to be there and we seem to be fitting our seniors for successful pursuit of them.

Lots of other things are happening with students. For instance, Ronald E. Medrzychowski, '76, of South Attleboro, has been appointed to the spring 1976 Undergraduate Research Participation Program at the Argonne National Laboratory. He is majoring in nuclear engineering.

The newest campus organization is a student chapter of the Society of Women Engineers which received its charter in November. Cynthia A. Bouvier, '78, heads the 60 member chapter, the second established in Massachusetts.

Timothy M. Casey, '77, was one of three survivors who swam ashore following the swamping of a 40 foot fishing boat off the

coast of Gloucester December 22. A total of six crew members were on board when the boat left Portsmouth, N.H. two days earlier on a training cruise to Cape Cod in preparation for a trip to Florida and the Bahamas later in the month.

Student concern for others took several forms during the past term. The annual Red Cross Blood Drive collected 206 pints during the two days in November. The Interfraternity Council's Marathon Basketball Game raised \$1700 for Worcester's United Way Campaign. Both the Black Students Union and Lambda Chi Alpha conducted successful campaigns to raise funds for holiday dinners for needy families.

*On the Sports Scene*

The typical sports fan judges a team's success by its win-loss record. However, the coaches, sports writers and others intimately connected with athletics have another measure of success. Various regional and national statistical summaries of individual player performance compiled weekly help bring recognition to outstanding performances, whatever the league standings of their teams. Peter Krupinsky, this season's basketball team center, has been named twice to the first team in Division II Eastern Collegiate Athletic Conference weekly honors listings. Guard Richard Wheeler made the first team once and honorable mention twice. WPI has been better represented in these honors listings than any other Division II team.

At season's end, coaches and writers compile the traditional mythical top teams from throughout the region. This year, Alan King and John Bucci both were named to the All New England first team in soccer by the National Soccer Coaches Association. John Maxouris made honorable mention.

On balance, WPI athletic teams consistently give very creditable performances and on occasion truly outstanding ones. Individual players, too, have brought great credit to WPI. For a college which makes no special concessions to its athletes, which does not make an unusual effort to seek and retain students of exceptional athletic ability, WPI has fared well in competition.

*Academic Activities*

Since the Washington Project Center opened in September 1974, there have

Remedies proposed

## West-Institute corner eyed

by Lance Sunderlin

The Traffic and Pedestrian Safety Committee, a Sub-committee of the CCS, will have a meeting Thursday, February 5, in the wedge at 7:00. Anyone interested is invited to attend.

We will be discussing the traffic and pedestrian safety problem on West Street and Institute Rd.

In the past twelve months there have been 12 reported accidents at the intersection of West St. and Institute Rd. Considering the amount of traffic that passes through the intersection, it rates as one of the city's most dangerous intersections. Something must be done to cut down on the accident rate!

The committee already has plans to circulate petitions urging the city to take immediate action to improve traffic and pedestrian safety on Institute Rd. and West St. Once the petition has been filed the city council will hear a 5 minute dissertation on the problem by one student. The council will then turn the petition over to the Traffic and Parking Committee for

been 105 students who completed 44 qualifying projects while working with 20 Washington agencies. As those who took part in the earlier sessions have returned to campus, they've spoken so highly of the experience that the number of applicants seeking to work in the nation's capital is increasing. During this second year of operation, we have limited the center's activities to Terms A and B. This appears to provide a good learning experience at a reasonable cost.

Frank Lutz, who's served as a resident director of the center during the 1974-75 year, has managed the center from Worcester this past year with a monthly visit to Washington. Professors Allen Benjamin and Wilhelm Eggimann lived at the Center during Term A, serving as resident faculty advisors for seven weeks. During Term B, Professors Roy Bourgault and Leon Graubard were in residence. Resident advisors during the first year of operation were Professors James Demetry, Carlton Staples, Allen Hoffman, and Stanley Weinrich.

We continue to enlarge our efforts to serve the community through education. Starting in Term C a three year certificate program for Plant Engineering Professionals will get under way. Modeled after our very successful School of Industrial Management the new program will serve those in local industry who are faced with increasingly complex problems in the management of maintenance and facilities activities. One evening a week during each academic year for three years is the challenge to our students from industry.

January Intersession continues its attraction for our students, especially those in their first three years at WPI. The mix of normal and arcane courses, of instructors working in and out of their disciplines, and of freshness in educational experience makes those two weeks in January a true refreshment and change of pace. This year about one half of our students experienced Intersession.

Mountaineering courses at intersession have been expanded by Professors Robert Wagner and Joseph Kohler. They have conducted safety research on the use of lightweight camping stoves, finding that commercially available stoves create relatively high levels of carbon monoxide.

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review and public discussing. At that time it is up to us to present our case. Presently we are asking for several improvements listed below.

- 1) Put crosswalk markings on Institute St. and repaint markings on West St.
- 2) Install signs denoting the crosswalks to motorists.
- 3) Post the speed limit on Institute Rd.
- 4) Install a caution light at the intersection of West St. and Institute Rd.
- 5) Install signs denoting the light to motorists.
- 6) Provide stricter enforcement of traffic regulations.

If we are to improve the situation we, ourselves, must be more careful driving and also show the city council that we are concerned and sincere in our thoughts and actions. It's in your best interest.

All students and faculty are reminded that parking on Institute Rd. is prohibited on the south side between Park Ave. and West St. Parking is now allowed on the north side next to the campus except where posted.

# Editorials: Support Newspeak

As everyone knows *Newspeak* had its share of problems term B. The management went through major changes, but the paper itself hasn't really changed.

Our philosophy for term B was to just keep the paper going as best we could. We were in no position to make changes. The main reason being the lack of support from the student body. As soon as the paper folded last term, people came crawling out of the walls to tell us why it folded. When *Newspeak* was in print again, all these people faded faster than they had appeared. Consequently, Rory and I decided to put out a paper with whatever we had, no matter how little. We knew that WPI needed some way to spread information even if we couldn't find many people to write.

Term C will be different, I make that claim now. *Newspeak* is going on a major recruiting campaign. I am making no attempt to hide the fact that *Newspeak* needs help. Instead, I am advertising the fact so everyone who reads *Newspeak* will know what is going on. This is the chance for all those who have ever been interested in the paper, and all those who criticize the paper, to take a shot at making it better.

If this editorial, or anything else has aroused your interest in *Newspeak*, please feel free to drop in on any of our regular meetings: Writers meeting - Tuesdays at 11:00 a.m., Make-up - Sundays at 2:00 p.m. If you can't make these meetings, get in contact with either Rory or me c-o *Newspeak*, WPI Box 2472.

Toby Gouker  
RJO SAW  
SBF AJG

## Election time

It may seem quite early in the year, but it is time once again to become concerned with national elections. The Massachusetts primary will be held March 2, and although it is too late to register, it's not too late for those of us who are to do something about who will be selected to run for president in November. The primary election gives the voter his only real chance to support the candidate of his choice. The ballot in November will contain only the names of the winners in the primary elections (for the most part). If we do not express our view in March there is a good chance that we won't be able to later. There seems to be a great need for us to speak up now, in order to avoid another series of incidents that have caused much distrust in those we choose to represent us. There is plenty of time to look at all the candidates, ask questions and make a decision. The person who ends up rooming in the White House can have many long range effects on us here in the WPI community. There is also a senatorial seat and several representative's positions in contest. If there ever was a time to get up and go, this is it.

Rory J. O'Connor

## Letters: Holiday hypocrites

To the Editors:

Many people, even some of you, during the past holiday season probably sang Christmas carols. But how could you sing such a song as "Silent Night", which tells that Christ was born of a virgin, is the Saviour, and the Lord, when you reject the virgin birth of Christ and don't even believe that He is the Saviour and the Lord? But, just as bad, how could you sing "Hark the Herald Angels Sing", which tells that Christ came to give eternal life, when you don't believe in life after death? The Bible states in MARK 7:6 "Well hath Isaiah prophesied of you hypocrites, as it is written, This people honoreth me with their lips, but their heart is far from me." You are hypocrites, for while you sing these great hymns of the faith your heart is far from Christ, to whom these songs were written.

The Bible truly speaks of you in 2 TIMOTHY 3:1-5, "This know, also, that in the last days perilous times shall come. For men shall be lovers of their own selves, covetous, boasters, proud, blasphemers, disobedient to parents, unthankful, unholy, without natural affection, trucebreakers, false accusers, incontinent, fierce, despisers of those that are good, traitors, heady, high-minded, lovers of pleasures more than lovers of God, having a form of godliness, but denying the power of it." While you are singing these songs you have a form of godliness but deny the power of it. How can you sing these tremendous hymns while throughout the rest of the year you curse and blaspheme the very name of the Lord Jesus Christ? It can clearly be seen that men are lovers of pleasures more than lovers of God, for while some, if not most, of you sang these songs you were probably drinking some intoxicating beverage. But that is not all, regardless of whether or not you drank, it is still an abomination to the Lord God of Heaven to sing these songs while you don't believe what they say. "Lying lips are an abomination to the Lord", PROVERBS 12:22.

I don't care how well, or how many times, or what you had to give up to sing these hymns it is still an abomination to God. "The sacrifice of the wicked is an abomination", PROVERBS 21:27. Also Jesus Christ said in MATTHEW 7:21. "Not every one that saith unto me, Lord, Lord shall enter into the kingdom of heaven, but he that doeth the will of my father, who is in heaven." The will of the Father is that all come to be saved. "The Lord is not slack concerning his promise, as some men count slackness; but is long-suffering toward us, not willing that any should perish, but that all should come to repentance." 2 PETER 3:9. God does not want any to perish, "For God so loved the world, that he gave his only begotten son, that whosoever believeth in him should not perish, but have everlasting life." JOHN 3:16.

You may have been the worst hypocrite during this past vacation, but God will still save your soul. For the Bible states in ROMANS 5:8, "But God commendeth his love toward us in that, while we were yet sinners, Christ died for our sins and He rose from the dead that you might through Him, have life after death. Won't you repent of your sin and ask Him to come into your heart and save your soul? If you do and believe with all your heart that He can save your soul, then He will. The Bible states in ROMANS 10:13, "For whosoever shall call upon the name of the Lord shall be saved."

No one can get saved for you, you must get saved for yourself. Please come to the Saviour now don't delay, for the Bible states in 2 CORINTHIANS 6:2 "behold now is the accepted time; behold, now is the day of salvation."

If you have any questions on this or previous letters, I invite you to come out to our Bible Study Tuesday nights at 7:00 in Stoddard C First Floor Lounge.

Chet Kulus

## Careful research

To the Editors:

I would like to state, in reference to my recent articles on the pub stereo system, that all facts listed are accurate within my ability to check them and all theories were based on sound reasoning. Before writing the series, I did a great deal of careful research, including talking to Jerry Forstater, the Contractor, Rusty Hunter, a social committee co-chairman, Dean Brown, Dean of Student Affairs, Brad

Thatcher, of the committee to investigate the pub system, and Jim Lackey, of Natural Sound. In addition, I thoroughly studied the proposals and receipts involved in the purchase of the system.

Any one who questions the accuracy of my statements or logic is welcome to contact me for far more information than was able to print in the articles.

Gary Davis

## President's letter

[cont. from page 1]

However, by raising cooking pans high enough to prevent direct flame contact the carbon monoxide level dropped sharply. Although it's not recommended, many campers cook inside their tents in sub-zero weather. Under these conditions, the findings of Wagner and Kohler take on real significance and were published widely as an aid to campers.

The recent changes at Alden Research Laboratories have proceeded satisfactorily. George Hecker, as the new Director, is continuing Larry Neale's tradition of vigor and energy in leadership. To aid Hecker and to help bring the main campus and Alden closer together, Joseph Mielinski has been appointed as business manager. He will divide his time equally between Alden and his current campus work as Projects Administrator. Professor Neale continues his successful work at the Laboratories as head of flow measurement and machinery.

Incidentally, Alden Laboratories staff and campus faculty members collaborated well in developing a major proposal to the federal Energy Research and Development Administration. In cooperation with General Electric we seek roughly \$500,000 to support a major solar energy demonstration project to heat the water used in hydraulic testing at Alden.

Our policy of encouraging department heads to maintain their disciplinary competence and thus preserving their options in teaching and research vis-a-vis administration received another boost recently. Professor Armand Silva, Head of Civil Engineering, has decided to return to full-time teaching and research at the end of this academic year. We thank him for his commitment to the headship and thank him for his leadership while wishing him

continued success on his ocean sediment research. He may shortly become a movie star in a U.S. Navy production on oceanography!

Of course replacement of Professor Silva adds another load on Dean Bolz and related faculty committees. His search for a head of Management Engineering is in its final stages - we hope - and has been a complicated and challenging process. Several more come another one.

Several of our faculty have interesting new responsibilities or honors. Dave McKay, Associate Professor of Humanities has been appointed director of music at the First Unitarian Church in Worcester.

Professor Robert Hall, Director of Continuing Education, was chairman of the session at the 1978 Bicentennial College Industry-Education conference of the American Society for Engineering Education in Orlando, Florida January 14-16.

Prof. Stephen R. Alpert, Computer Science, has been elected National Vice Chairman of the Special Interest Group of Minicomputers of the Association for Computing Machinery.

Prof. Robert Peura was honored by the American Society for Engineering Education at the New England section annual meeting. He received the Western Electric Fund Award for excellence in teaching engineering students.

### Outside Relations

By the time of our next meeting trust members of the Tri-College Committee will have met with the three presidents. They will have reviewed progress to date and hopefully will make some policy decisions about the future. A report on results will be presented at the full Board meeting.

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# Newspeak

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# President's letter

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On the state scene AICUM continues to be effectively active on behalf of independent higher education. An extra \$1 million for the state scholarship fund is one result. Another is Senate President Kevin Harrington's request that AICUM participate in developing a major organization of the Board of Higher Education toward greater participation of the independent sector in planning and managing state higher education generally. At the national level strong leadership by AICUM staff has greatly influenced the commendations of a national study commission. The thrust of these recommendations is the creation of a strong national voice in Washington for the independent sector. Success here is vitally important in helping Congress and the executive branch reach decisions that maintain the vitality of the independent sector, its diversity, and its ability to remain innovative.

Recently AICUM executives along with their counterparts in Connecticut, New Jersey, and New York met with the top leadership of the Ford Foundation. Ground work was laid for Ford's possible support of common activities in support of independent higher education.

Federal government regulations and interpretations of regulations require an ever-increasing amount of attention as we strive to meet the letter and spirit of the

right to know law, equal rights legislation, and regulations on safe working conditions, VA reports, etc. Government questionnaires seem to multiply each year. These are indeed strange times when we must spend so much time which could be used more productively for our own students just proving that we are complying with various laws. Thanks to AICUM efforts many of these restrictive and invasive regulations are cut off at the pass.

### Development

**Plan to Restore the Balance** — As the calendar year closed, the capital campaign total stood at \$13,954,000. The campaign has reached the hard digging stage. However, general economic indicators point toward increasing prosperity in the country and we are hopeful that during the final two years of the campaign donors who have had to curtail their philanthropy will be in a position to add their support to our efforts.

The alumni Telethon conducted last fall was a success. Over 5000 alumni were reached by a small army of 350 volunteers working from temporary telephone centers throughout the country. The results show that 72 per cent of those contacted responded with increased gifts. Not only did it result in an important increase in funds raised, but it also provided the opportunity for renewed personal contact with almost half the alumni body.

# Constitution amendments

ARTICLE II, ARTICLE XI, and ARTICLE XII PASSED — YES 448 (78.6 per cent)

1. All references to the "Dormitory Committee" shall be changed to "Residence Halls Committee". All references to the "Food Committee" shall be changed to "Dining Hall Advisory Committee".

ARTICLE V, Section I DID NOT PASS — YES 316 (53.8 per cent)

2. In all offices, except student body president, secretary and social chairman, only 25 signatures will be required instead of 50 signatures for the nomination to office.

ARTICLE III, Section IV; ARTICLE IV, Section IV;

ARTICLE VII, Section III PASSED — YES 428 (74.9 per cent)

3. All references to "In case of a tie, the Executive Council shall determine the Winner" in elections will be deleted.

PASSED — YES 468 (87.1 per cent)  
4. THIS REPLACES ORIGINAL ARTICLE IX

ARTICLE IX — Academic Committee

Section 1 — Duties and Responsibilities

The prime duty of the Academic Committee shall be to encourage student body discussion of matters before the faculty committees so that student opinion can be accurately reflected by the student members of faculty committees. It will also be the responsibility of the Academic Committee to initiate, consider, and make recommendations on questions of policy which come before faculty committees.

Section 2 — Membership

A. Membership shall consist of those students appointed by the Executive Council to serve as student members of the Standing Faculty Committees and Ad hoc Committees which are specified in the Faculty Constitution.

B. Each member of the Academic Committee must be in academic residence for three out of four terms (excluding Term E).

Section 3 — Officers

A. Chairman

1. The chairman shall be elected from the committee at a joint meeting of old and new members held within one week of appointments. The chairman is elected by a majority of the new members.

2. The chairman shall hold office for one academic year, commencing in September.

3. It will be the responsibility of the chairman to report to the Executive Council of all the Academic Committees transactions. It shall also be the chairman's duty to call meetings and to see that the committee abides by the rules set forth in this document and the Academic Committee By-laws.

B. Secretary

1. The secretary shall be elected at the same time and in the same manner as the chairman.

2. The secretary shall hold office for one academic year, commencing in September.

3. It will be the responsibility of the secretary to keep a record of all Academic Committee meetings and to keep the members of the committee, as well as all students, informed of meeting times and places.

# Residence hall committee

by Lance Sunderlin

The Residence Hall Committee is presently working on the Housing Proposal for the Office of Student Affairs. The committee has been working diligently, already having had an open forum on women's housing. The committee has also gone around to women on an individual basis to solicit their thoughts on housing and we've had many meetings to discuss housing problems and solutions. In the very near future we will be communicating with other students on campus to continue the committee's enlightenment.

Tentatively the committee has agreed to phase out women's guaranteed housing beginning in 1977-78. All freshmen should be guaranteed housing as long as they confirm acceptance before a stated deadline. Also the room draw should be held in C term in future years and this year if possible. We will keep you well posted on that possibility. We are currently attempting to make housing need, projections for four years to come and plans to handle the increase in women at WPI. We will be discussing black's housing, Ellsworth-Fuller and Stoddard soon.

If you have any comments about what you would like the housing proposal to propose, stop in and see one of the following internal residence hall committee members.

- |                     |                 |
|---------------------|-----------------|
| Steve O'Shaughnessy | Daniels 208     |
| Steve Laskowski     | Daniels 309     |
| Dave Lodigiani      | Daniels 411     |
| Kurt Koly           | Rm. 3 Ellbridge |
| Brad Tannebring     | Ellsworth 08    |
| Tom Gudewicz        | Ellsworth 06    |
| Ron Fish            | Fuller 16       |
| Carl Gerstle        | Fuller 15       |
| Mark Galvin         | Morgan 231      |
| Dan Johnston        | Morgan 337      |
| John Corini         | Morgan 404      |
| Doreen Woodman      | Riley 116       |
| Joanne Beckett      | Riley 203       |
| Tina Tuttle         | Riley 314       |
| Tina Perry          | Riley 415       |
| Ron Graves          | Stoddard A316   |
| Mike Kronkiewicz    | Stoddard A 317  |
| Andy Tannenbaum     | Stoddard B 202  |
| Cynthia Bouvier     | Stoddard B 303  |
| Kurt Eisewman       | Stoddard C 103  |
| Dick Crafts         | Stoddard C 112  |

At the December faculty meeting, Tom Denny read a letter from Carlton R. Sanford of the Class of 1927 who has established a \$100,000 trust to aid WPI students. The letter read, in part, "...Besides the usual reasons for an individual to desire to help his alma mater, I have a very special one. In late 1927 I was completing a condition in organic chemistry in order to get my degree. Prof. Jennings (the Kaiser, bless him) took me under his wing and besides pounding organic chemistry into my dull brain, found a job for me in the Research Lab of Eastman Kodak. I went to work with the company on February 20, 1928. That date was a very lucky one for me and I have ever since been very much indebted to Tech and Prof. Jennings. I retired 41 years later."

It was an inspiration to our faculty to learn that one small act of consideration for a student may inspire a similar gift in the future. The history of college philanthropy is filled with similar stories.

Among the major grants received recently was one for \$73,000 from the Exxon Educational Foundation to support a three year study on "Management of Academic Information for Effective Administrative Decisions." WPI will be aided in this study by the Arthur D. Little Company. Another grant, for \$55,473, has been received by Dr. Armand Silva for a study of the geotechnical aspects of

seabed disposal of radioactive wastes. Prof. Ronald Biedner has received a supplementary \$20,000 for his study of zircaloy-steam oxidation reaction kinetics. Losses

I can't help but remind all of you once again that Jim Clerkin is gone. A tremendous supporter of WPI and an energetic presence on the Board, he will be sorely missed by all of us. We have shared this feeling with Mrs. Clerkin and his daughter.

Another loss whose poignancy we share is Dorothy Simon's. Her husband, whom many of you know, died suddenly not long before Christmas. He was a vital person and will be greatly missed.

### Conclusion

An organization like WPI long outlives its members. It does so because those who have gone before have given so much in time and treasure. Each day I see examples of that dedication in all who work at and for WPI. Those of you nearly perhaps help the staff and me more frequently than those not easily accessible to Worcester. But all of you can and do contribute when asked, and do so generously and enthusiastically. We thank you for it.

If that continues, WPI surely will celebrate its bicentennial in 2065!

Sincerely,  
George W. Hazzard  
President

# Social committee report

by Bill Cunningham and Bob Cunneen

Welcome to the only really bright spot in your *Newspak*. The Social Committee Corner! As you can see we have a new logo which should head a weekly column, hopefully containing juicy tidbits of gossip pertaining to upcoming concerts, ideas, meetings, past expenses, and any other information we have to pass on. For instance, our Intersession Financial Report:

Six nights of live entertainment — 2 nights of	
Max Creek	\$350.00
Jimmy Hanna	\$400.00
The Scratch Band	\$400.00
(who will hopefully be returning soon!)	
American Standard Band	\$315.00
Babe Pino Band	\$200.00
TOTAL	\$1665.00

At 25 and 50 cents cover charge on those nights, the return wasn't spectacular, but we still put \$456.00 back into the treasury.

So much for what has gone by, Cindy G. our gracious GOHPEC person has come up with St. Patrick's day in February! The Irish night in the PUB will be this Saturday, February 7th, and feature Pat's People, a heart Irish Band, and lots and lots of green beer. Starting yesterday, our videotape network series will now be shown in the PUB along with regular showings campus-wide during the day. This week's presentation is NFL Football Follies, and they should be worth a glance or two at 10 a.m., noon, 3 p.m., 7 p.m. and 9 p.m. Spectrum is presenting Alan Funt on the 11th of this month! (you probably all remember the infamous Candid Camera man.)

We are planning a Social Committee—GOHPEC organizational meeting for tomorrow, that's Wednesday the fourth, at 4 p.m. in the PUB. We would like to talk about upcoming plans for Winter Weekend, March 5, 6, 7, and also get some ideas for SPREE DAY. So if you have anything to say or would just like to listen, please come and join us.

# Dormitory hearing board

The Dormitory Hearing Board Election for Ellsworth and Fuller will be held February 11, 1976.

If you wish to have your name put on the ballot you must submit a petition of 25 signatures from students residing in Ellsworth and Fuller. E-F residents may sign

only one such petition and petitions must be in to me by midnight, Sunday, February 8, in Ellsworth 08.

Lance Sunderlin  
Dormitory Hearing  
Board Chairman

# Zeta Psi

by Gary Loeb

The Zeta House, now a full 27 pledge brothers strong, has lots to tell about. Zeta Psi made its debut into intramural Hockey by defeating Tau Kappa Epsilon, 4 goals to 3 for TEKE. Our team looks strong and we hope to win more games in the future. In IM basketball and bowling we are trying our best. We may not win very many games, but we have a lot of fun trying.

This Wednesday we will be holding elections for all offices. Those elected will hopefully become the first officers of the Pi Tau Chapter when it receives its charter next spring and becomes an active chapter in the Circle of Zeta Psi. Those currently holding offices will receive the distinction of being the founding officers of the Pi Tau Colony and Charter Members of the Pi Tau Chapter of Zeta Psi Fraternity of North America.

# IQPs in environmental law

The Massachusetts Forest and Park Association, an environmental lobbyist group which works to strengthen environmental law throughout the Commonwealth, is looking for students interested in helping.

MFPA is primarily interested in upperclassmen or graduate students. Work might include evaluating proposed legislation, drawing up legislation, examining environmental topics such as off-shore oil drilling or examining energy needs. A wide variety of possibilities are open.

The area is ripe for IQP activity and if you are interested in setting up an IQP with the Forest and Park Association, contact Paul Cleary at the IQP Center this week.

MFPA has a full-time lawyer working with them. Office space is available for students at the association's Boston headquarters.

If you are interested in the legislative process, law, politics, environmental issues....this might be for you.

**PARKING NOTICE**  
Institute Road parking has been changed by the city of Worcester. Parking is now prohibited on the south side between Park Avenue and West Street. Parking is now allowed on the north side next to the campus except where posted. These changes are in effect NOW.

Commentary on

# What's teching?

by Gary Davis

Though Greg Walsh completed the 100 yard dash in record time, the contest was not yet won. He had to go back, re-evaluate, and make his run again. To win this race, he did not just have to arrive quickly, but also had to be carrying a working computer program written in ANSI FORTRAN to the I-O dispatcher. When the final run was completed, WPI had won the RPIACM computer programming contest.

Several months ago, Rich Francola and Andy Grosso, of the Rensselaer Polytechnic Institute association for computing machinery, announced the programming contest, to be judged by Bruce Keith, who had been active in both RPI and WPI ACM. RPI, WPI, State University of New York (SUNY) at Albany and Potsdam, Franklin and Marshall College, Cornell, MIT, Stevens Institute, Polytech of NY, NYU, and Vassar were invited. Of these, only the first five showed up.

Having received notice of the contest, WPI held its own contest in December to form a team to go to RPI. Unfortunately, no one was able to complete the two WPI programs. The four least losers, Greg Walsh, Craig Laub, Ed Menard, and Mike Kenniston, were chosen to go to RPI. At the last moment, Mike became unable to go, so Gary Davis, who had not participated in the WPI contest, was chosen (dragged along) as the fourth member. Jeff Gunter came along for the ride (a bad idea; the ride was cold), and Eric Northrup, joined us in New York, as an "observer".

The contest was held on SUNY Albany's Univac 1110 system, as RPI's IBM was

having problems. Each team was given four programs, a NIM simulator (chosen by Craig), a simple Syntax Scanner (Ed), a check printer (change 17.10 to "seventeen dollars and ten cents"; chosen by Gary), and a Polynomial Simulation (Greg). The programs were written in unenhanced ANSI FORTRAN to be submitted in batch to the 1110. Scoring was based on the time required to write each program, with a penalty for using more than twenty runs (total). Surprisingly, the quality of the program was not a consideration.

The contest started at 10:45, with WPI submitting the first program at 12:10, a NIM program which determined that removing six beads was a winning move. The following were working by 3:30: RPI, 1:46 NIM, 3:15 Syntax Scanner, 23 runs total; WPI, 1:58 NIM, a 3:02 Syntax, 3:05 checks, 23 runs total; SUNY Potsdam, 2:10 NIM, 5 runs total; F & M, No working programs, 3 runs total; and Suny Albany, No working programs, 2 runs total.

At 3:30, WPI and RPI were programming furiously to complete the last program by 3:45, the contest end. At that time, no one had completed the polynomial program, and RPI still had the check writer to debug. RPI decided to extend the contest to 4:00.

By 4:00, no more programs had been completed, but RPI had both of their programs in a final run. If they worked, RPI would win. It was soon discovered to be only a rumor that RPI's check program was running, and the polynomial program didn't work. Greg finished WPI's polynomial program at, naturally, 4:01.

F & M and SUNY did so poorly because they were trying to write structured programs, which they were hoping would work successfully on the first run. Unfortunately, they didn't even finish writing four programs by the end of the contest. It seems surprising that SUNY, with such a large computer installation, could not even find four people capable of writing a program. RPI had an advantage in that they work almost totally in batch, and were used to its inconveniences. While the turnaround time was almost as good as time-sharing (about 3 minutes), the limitation of twenty runs and the unfamiliarity with keypunches caused trouble for WPI, especially in Gary's program, which had a 20 line data statement.

The night before the contest was a lot of fun for the WPI team. Driving around a strange campus is difficult at best; when covered with snow it's impossible, especially since RPI is much more spread out than WPI. When one road we were

driving on terminated in a stair case, we realized that we had been driving on sidewalks all night. As long as we hadn't been caught yet, we decided to keep doing it, but it was a little embarrassing when we got stuck on the grass in front of the physics building.

Our accommodations for the night were less than ideal. The best RPIACM had been able to arrange was for us to sleep on the floor in the game room of a frat. We were told that a frisbee team had done it once, but somehow we did not find this comforting. Gary had a friend going to RPI, so the team was able to spend the night in his apartment.

WPI was awarded a gold plaque, with RPI coming in second, receiving a bronze one. They were paid for out of the membership dues of RPIACM, which is more popular than WPIACM since at RPI it is one way to receive free computer time. Our plaque will be hung at WACCC, as soon as we receive it.

## Speakers at IQP luncheon

by John Wilkes

The term C series of IQP luncheons will get under way with a pair of fine outside speakers. The first visitor will be Norman Balbanian, Professor of Electrical Engineering at Syracuse University. Professor Balbanian will address both the freshman and seminar and the luncheon group on February 5th about the future and responsibilities of the engineering profession in developing a "convivial technology". As head of the Public Policy and Engineering program at Syracuse, and a restless reformer who has visited Rumania, Cuba and elsewhere in search of ideas and perspective on the problem, he is unusually well equipped to do this. Those wishing to have a glimpse into his thinking should contact Harit Majmudar or John Wilkes for a copy of his review of a recently published engineering text.

The following week, Thursday February 12, Professor John Reed, of the Bates College Sociology Dept., will address the group on the *Transfer of Technology and the Thoughts of Mao tse Tung*. This talk will explore the increasingly influential 3rd

world interpretation of technology as an 'ideology' rather than a set of neutral techniques. While Professor Reed will draw upon Latin American spokesmen as well as Mao, he has spent several years in Hong Kong and is well qualified by interest and experience to interpret this school of thought.

Professor Reed will also speak to the WPI community a second time, on Friday the 13th he will attempt to overcome the gremlins of misfortune to demonstrate the capabilities of the IMPRESS system to those interested in using this resource for project work of teaching. The IMPRESS system is a massive collection of social data and analysis techniques prepared for computer access by Dartmouth University. WPI is considering the possibility of tying into the system on a time sharing basis for an experimental period of one year.

While a tentative invitation list has been developed for each of these noon meetings, those wishing to be certain of an invitation and meeting reminder should contact Joan Shanahan at the project center (extension 366).

## Prof. W. Perry to speak

On Friday, February 6 at 4:00 p.m. in Higgins Laboratory 101 Prof. William Perry will speak on "Intellectual and Ethical Development in the College Years". Prof. Perry has conducted studies of Harvard students over the last 20 years, at the Bureau of Study Counseling. He finds them to move from a rigid authority, we-are-right they-are-wrong position, to appreciation of complex problems and an ability to cope with uncertainty. These topics seem particularly relevant to WPI. All students and the community are invited.

This talk is a part of the ongoing Teaching-Learning community at WPI. Last May, a group of 12 faculty and 12 students talked for two days about "Enhancing and Impeding Teaching and Learning at WPI". The meetings were originated by Profs. Majmudar, Goodwin, and Hoskins, and funded by President Hazzard from Ford Venture Funds.

Suggestions for campus action, and a workshop each term, resulted.

Dr. Ronald Taylor spoke on "The College Learning Environment" in October and Dr. Edward Kelly spoke on "Problems of Evaluating Teaching-Learning: Current Findings" in November. The workshop participants met with the speaker for dinner and discussion at LaSalette House. On Saturday they and a facilitator related the expert's ideas to WPI. In the first series, Resident Advisors participated. A second group of 9 faculty and 9 students (fraternity reps, commuters, and dorm residents) began a second group in the Intersession just past. They will meet with Prof. Perry.

Another group is springing up, of past participants and others interested. If you would like to meet together after Prof. Perry's talk and for supper and discussion, contact John Zimmerman, Box 1794 or Prof Hoskins, (Secy. Olin 118).

## WPI students invited to ESCS

by David Cyganski

All WPI students who feel that they have been doing interesting project work should consider presenting a talk at this year's Eastern College Science Conference, "ECSC".

Annually the ECSC meets at some sponsoring college with the intent of stimulating undergraduate interest in the sciences. This year the conference will be held at Rhode Island College in Providence, and WPI students have again been invited to attend.

In addition to the opportunity of presenting a paper as well as hearing presentations in a wide number of fields, participants also engage in social activities, such as mixers and dinners.

There is also a paper competition with cash awards presented at the business dinner. Last year, WPI students walked away with several prizes. In order to register, or to make further inquiries, contact Professor Berka (Goddard 106). Please come soon, as an abstract of your paper, of not more than 100 words, must be submitted to him by Feb. 19, 1976.

All students are eligible, with papers individually written or even group effort acceptable. The actual talk need only be an informal presentation, as papers will be judged prior to the conference.

The dates of the conference are April 1-3, 1976. In the past transportation, room and board have been provided.

Anyone who wishes to go to Boskone 13 who has not contacted Steven Fine, please contact him by February 5. February 5 is the last day that anyone may sign up to go to Boskone 13 with the WPISFS. Steven Fine, Box 1038 or phone 755-1089.

### TUESDAY 3

- |   |                          |
|---|--------------------------|
| 1) Air Products & Chemicals Inc.        | BS-MS-PhD CM             |
|   | BS-MS ME, IE, MET, ENGR. |
| 2) *General Dynamics-Electric Boat Div. | BS-MS ME, CE, EE, NE     |
| 1) Universal IOL Products Co.           | TBA                      |

### WEDNESDAY 4

- |  |                |
|--|----------------|
| 1) **Allis Chalmers                    | BS EE, ME, IE  |
| 1) Central Maine Power Company         | BS ME, EE      |
| 1) ** National Starch & Chemical Corp. | BS CM BS-MS CH |

### THURSDAY 5

- |   |                          |
|---|--------------------------|
| 1) ** Atlantic Richfield Co.                | BS-MS CM                 |
| 1) Northrup Corp.-Precision & Products Div. | TBA                      |
| 2) Sanders Associates, Inc.                 | TBA                      |
| 2) ** Stone & Webster Engineering Corp.     | BS-MS CE, CM, EE, ME, NE |
| 1) United Engineers & Constructors, Inc.    | TBA                      |

### FRIDAY 6

- |  |              |
|--|--------------|
| 1) ** Union Carbide Corp.-Linde Div.           | BS-MS CM, ME |
| 1) Commonwealth of Mass. Dept. of Public Works | TBA          |

### MONDAY 9

- |                                  |     |
|----------------------------------|-----|
| 2) Factory Insurance Association | TBA |
| 1) Norton Co.                    | TBA |
| 2) United States Steel Corp.     | TBA |

### TUESDAY 10

- |                            |                                    |
|----------------------------|------------------------------------|
| 1) Carrier Corp.           | TBA                                |
| 2) ** B. F. Goodrich Co.   | BS-MS CM, CH, ME, CE, IE           |
| 1) Republic Steel Corp.    | BS, CM, CE, ME, EE, IE, MA, CH, PH |
| 2) * Stauffer Chemical Co. | BS CM, CH, ME                      |
| 1) Texas Instruments Inc.  | TBA                                |

For week to week corrections of schedule check Dean Trask's office.

### REFRESHER COURSE for FUNDAMENTALS of ENGINEERING EXAMS FEBRUARY 4-APRIL 7, 1976

The course will be taught on nine consecutive weeks beginning on Wednesday, February 4th. The format of the course will be a formal lecture period Tuesday evenings, and a comprehensive review session at the end of the course. The lecturers will be members of the WPI faculty. Fee for WPI undergraduates - \$35.00 (\$70 for non-WPI). Registration: Continuing Education Office - Boynton Hall 310.

### Thanks Bud, TKE

U.S. Marine Corps on CAMPUS RECRUITING - Feb. 3rd and 4th - 10 a.m. to 3 p.m. at the Wedge.

U.S. NAVY on CAMPUS RECRUITING - Feb. 17th and 18th - 10 a.m. to 2 p.m. at the Wedge.

U.S. Air Force on CAMPUS RECRUITING - Feb. 11, 1976 - 10 a.m. to 2 p.m. at the Wedge.

### THE RUTHERFORD ATOM

Black and white, 40 minutes

Monday, Feb. 9, 7:00 p.m. Olin lecture hall, OH 107

Dr. Robert I. Hulsizer (University of Illinois) explains and illustrates with apparatus and models the alpha-particle scattering experiment of Rutherford (1911, with Geiger and Marsden) which led to the planetary model of the atom, setting the stage for the quantum leap of Neils Bohr.

### CONQUEST OF THE ATOM

Color, 22 minutes

Monday, Feb. 9 12:00 noon and 7:45 p.m. Olin lecture hall, OH 107

The history of discoveries of the structure of the atom, and the nature of sub-atomic particles, are pictured: the electron, the atomic nucleus, the neutron, the release of nuclear energy.

# A Foothills winner

by John Wallace

Foothills Theatre Company is in top form with their production of "The Diary Of Anne Frank" by F. Goodrich and A. Hackett. The play is based on the diary of a thirteen year old Jewish girl, Ann Frank. It is the account of how her family and others spent two years evading the Nazis by seeking refuge in an attic in Amsterdam during the end of the second world war. The attic was their lives; they never left it. There were even times when walking and talking were not allowed for fear of being detected. Any food or news of the war came from their only contacts, Miep and Mr. Kraler.

It is a story of tensions and love; tensions that come from constant fear and lack of food, space and air; love that builds between people and must be there for anybody to survive such an ordeal.

Anne's personality is a brilliant fire in the darkness. She is forever cheerful and accepts whatever happens. She never gives up hope; not even in the tragic end.

The story is related by Anne through her diary. We see things as seen by Anne, giving the play a youthful and cheerful appeal.

Rose Dresser did a fine job of direction for this production. She amply mixes laughs in with the taught drama. Although "The Diary Of Anne Frank" is consistently

moving and dramatic, there are many moments of humor and beauty. Most of these are important moments in Anne's life as she grows into womanhood and experiences her first love.

Gwyneth Gibby, a newcomer to Foothills, plays Anne Frank. She handles Anne's bubbling personality and youthfulness very well and was the major reason for the play's success.

Kricker James (my hero) was Mr. Frank, Anne's father and leader of the household. Mr. James demonstrates his talent while going through this character's varying moods, his moments of happiness and his moments of disaster. Mr. James handled the depthness of this part easily. If anyone else had been given the role, I would have turned in my press card.

The acting and directing as a whole was top notch. There was a lot of new blood in the cast which added needed spirit and realism to the performance.

All in all, the performance was extremely well done, the best I've seen of Foothills and definitely not one to miss. It is funny and tragic; it is beautiful and moving; it gets to you.

"The Diary Of Anne Frank" will show through February 8 at Foothills Theatre, Chatham St. Times are Wed.-8; Thurs.-2, 8; Fri.-8; Sat.-5, 9; Sun.-2, 8. Student tickets are \$2.90, and you can call 754-4018 for reservations.

# Irish night in the Pub

Each evening musically talented young Irishmen migrated to Pat's Pub on the Belfast waterfront to share their musical knowledge and witty conversation. All of those who participated were referred to as "Pat's People". In early 1973 some of these men migrated even farther — they came to North America to share their musical talent with Canada and the United States. Since that time, Pat's People have played to audiences from Ottawa to Vancouver, from Cape Cod to Los Angeles. They specialize in the folk music of their native British Isles and they transpose these traditional songs into contemporary sound. Also, Pat's People have a selection of their own compositions and a repertoire of folk, country and "pop" music in their shows. They bring it all to you — hoping you will enjoy their show and join them in the true Celtic spirit of the occasion.

### Pat's People

**Wallace Hood** — Wallace was born into a very musical family. His parents and relatives were musicians and members of the Ulster Operatic Company in Belfast. He started playing the guitar at the age of eight and at the age of fourteen joined its first group — a "pop" group. For a few years he played bass guitar with this seven-piece band until he entered Queen's University. During his four years at Queen's Wallace became deeply involved in the folk and traditional dance music of the British Isles. He began to practice the tenor banjo and mandolin, and he formed a group with three other musicians called the "Wayfarers". After graduation from Queen's, he taught English and Geography in a Belfast high school before deciding to emigrate to Canada with "Pat's People" in early 1973. Wallace plays electric and acoustic guitars, tenor banjo, mandolin and whistle, and takes lead vocal on the softer ballad-type songs.

**Raymond Maguire** — Generally recognized for his wide smile and charming personality, Ray is the on-stage "front man" for "Pat's People". All his life he has been exposed to Irish traditional music

through family and friends, but this was further nourished when he entered Queen's University, Belfast and joined the thriving folk music society where he met Wallace. Ray and four friends formed a folk group called "The Winnowers". They quickly became one of the most popular folk groups in Northern Ireland. After graduation from the university Ray taught history in a Belfast high school. When "Pat's People" decided to emigrate he was ready with lead vocals, six-string acoustic guitar, tin whistle, concert flute and harmonica and with his exciting renditions of the rousing folk songs of the British Isles and America.

**Frank Kennedy** — At the age of 12, while visiting Liverpool, Frank used to slip in at lunch time to see the then unknown "Beatles" perform and the excitement of their music encouraged him to learn the guitar. In a remarkably short time he was proficient enough to earn a job as lead guitarist in a Belfast pop group called "King Street Mews". After finishing high school he went to work as a professional musician in London for two years with groups like "Griffin" and "Stray". He returned to Belfast and entered the Ulster College of Art to study graphic design and photography, playing bass guitar on weekends with a group. When "Pat's People" asked him to join them in North America he was ready and willing. Frank contributes most of "Pat's People's" top harmony, playing 6 and 12 string acoustic guitar and electric guitars.

**Billy Dixon** — Billy is the group "foreigner", being blond and born in Hamilton, Scotland. The son of a professional entertainer Billy turned professional himself in 1971 playing in Toronto with his father's band "The Bonnie Laddies". At this time he was playing semi-professional soccer in Toronto. He later played with various rock groups before his love for traditional music persuaded him to join "Pat's People". Billy sings many of the lead vocals and plays bass guitar.



[Photo courtesy of The Foothills Theatre Company]

# WPI hosts new music ensemble

by Leslie Greenfield

Some of the finest jazz I've heard in a long time was here at WPI last Monday night, the 12th.

The Spectrum series was host to Carl Atkins and the New Music Ensemble, a sextet of Boston-area musicians, most of whom are staff at the New England Conservatory.

During the brief delay of the arrival of the pianist and drummer due to poor driving conditions, those in the group who were on time entertained the nearly full house with an impromptu version of "Autumn Leaves", which was held together nicely by some tight bass playing by Prentice Pilate.

Not five minutes after the tardy members of the band arrived, the New Music Ensemble plunged headfirst into later composition by the great sax man, Joe Henderson. "Recorda-me" culminated in a brilliant, flowing flugelhorn solo by Stanton Davis, who, by my standards, demonstrated that he is currently one of the best and most promising horn players in the country.

On the next selection, "Ju-Ju", by Wayne Schroder, Tom McKinnley left no doubts in the minds of those who were present as to why he is one of the most respected piano players in the area. His marvelous technique combined with an extremely creative mind made listening to him an absolute pleasure.

For a change of pace, Mr. Atkins put down his soprano saxophone, and with his bass clarinet led the ensemble through a lovely, melodic rendition of the modern jazz classic, "Tenderly". He revealed an incredible mastery of this most difficult in-

strument, which is rarely heard in a jazz idiom.

In conclusion of the first set, Mr. Atkins led the group through a piece I'm very partial to, one composed by the immortal sax man, John Coltrane. "Giant Steps" is an ingeniously constructed obstacle course of chord changes for the musician, and as Mr. Atkins mentioned in one of his workshops, it is also the perfect instruction piece for the student. When Coltrane recorded it he explained, "the bass line is kind of a loping one. It goes from minor thirds to fourths, kind of a lopsided pattern in contrast to moving strictly in fourths or in half-steps." The New Music Ensemble played it in the best "Trane tradition," adding a distinct alteration — they played it as a Samba.

The second set consisted of original compositions by the members of the ensemble. It began with Carl Atkins' "We are Universal" featuring not only a marvelous solo by Atkins, but an unbelievable trumpet solo by Mr. Stanton Davis. He's got to be on his way to becoming a superstar.

The next piece was an original by the piano player, Tom McKinnley, a captivating waltz which featured some fine flute playing by Thomas Lead, as well as McKinnley's extraordinary stylizing.

The concert concluded with Carl Atkins' "Extentions", a two-part composition, the first being a completely free, everyone-play-together-and-at-once type, whereas the second was more structured, with a distinct head, and individual solo sections.

If you ever have the opportunity to catch the Ensemble or any of the musicians, jump at it. It will be well worth it.

# The lowdown

by John Wallace

Well, now that we're back into the swing of things after missing quite a few productions and half of B term due to some silly sickness, let's see what's happening. Holy Cross will be producing Euripides's

"Orestes" February 16-22 at Worcester Art Museum. You can call 793-2496 for info.

Anyone interested in writing reviews and articles on theatre, movies, campus activities, etc? There's a lot going on. If you're interested and can write well, get in touch with me at Box 774 or 756-8486.



Worcester Polytechnic Institute — Regional Environmental Council, Inc.  
Co-Sponsors of a Symposium on

## The Effects of Off-Shore Oil Drilling and On-Shore Development

DATE: Saturday, February 7, 1976 \*  
TIME: Registration and Coffee 12:30-1:00 p.m.  
Symposium 1:00-4:15 p.m.  
PLACE: Worcester Polytechnic Institute  
Olin Hall Room 107

Keynote Address:  
Congressman Joseph D. Early, Third Congressional District.  
The State's Role in Offshore Oil Production:  
Curt Shurk, Deputy Director, Office of State Planning.  
Effects of Off-Shore Oil Drilling on Marine Ecosystems:  
John M. Teal, Ph.D. Senior Scientist, Woods Hole Oceanographic Institute.  
A Businessman's View of Off-Shore Oil Production:  
Frank H. Leslie, Managing Director, Better Home Council, Inc. of Massachusetts.  
Slides of Off-Shore Oil Operations and related On-Shore Impacts —  
Gulf of Mexico, Santa Barbara, Norway and Scotland: Nelson Buck Robinson,  
President, Essex County Ecology Center, Rockport, Massachusetts.  
Moderator: Professor Armand J. Silva, Chairman, Department of Civil Engineering, Worcester Polytechnic Institute.  
Panel discussion and questions from the audience will follow the presentation.  
In case of severe snow storm, alternate date will be February 28.

# OPERA

## at WPI?

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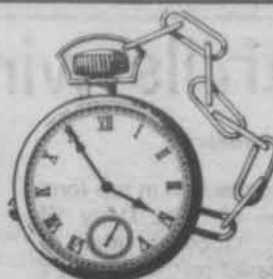
401 Worcester Rd. (Rt. 9) in Framingham (617)879-3556, 12 noon-10 p.m.

For a local demonstration, see your WPI rep.:

Gary, Box 1845, 799-1481  
Will, Box 1405, 799-9476



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# NOTICIAS DE CUERVO TRAVEL TIPS TO MEXICO

With vacation time fast approaching, many of you will no doubt be traveling to Mexico. Some of you might even be coming back. Here are some helpful hints.

1. A man on a burro always has the right of way, unless he appears to be a weakling.
2. In local cantinas, pouring a shot of Cuervo down a man's collar is not thought to be humorous.
3. Falling onto a cactus, even an actual Cuervo cactus, can be a sticky proposition.
4. It is tough to find hamburger rolls in the smaller towns; it's best to bring your own.



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PG  
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# What's Happening?

## Tuesday, February 3

FILM: "Point of Order" (1964), Cinematech, Alden Hall, 7:30 p.m.

SPEAKER: "Managing Your Salary," Student Alumni Relations Committee, Gordon Library Seminar Room, 7 p.m.

## Wednesday, February 4

Basketball vs Brandeis, JV at 6 p.m., Varsity at 8 p.m.  
Bump and Boogie, Pub, 9:30 p.m. following basketball.

## Thursday, February 5

Women's Basketball vs Lowell, 7 p.m.

## Friday, February 6

SPEAKER: William Perry, "Teaching-Learning Workshop," Higgins 101, 4 p.m.  
Basketball vs. Colby, 8 p.m.

## Saturday, February 7

PLAY: "Pat's People," Social Committee St. Patrick's Day, Pub, 8 p.m.  
SPEAKER: "Offshore Drilling," Olin 107, 12:30-5 p.m.  
Swimming vs Nichols, 10 a.m.  
Wrestling vs Lowell, 1 p.m.  
"Sports Day," Worcester County Alumni Association, Alumni Gym, 1-5 p.m.

## Monday, February 9

SPEAKER: "New Developments in Computer-Aided Flowsheet Analysis," Dr. Lawrence Evans, MIT, Goddard 227, 4:15 p.m.

## Tuesday, February 10

FILM: "Ali: Fear Eats the Soul" (1974), Cinematech, Alden Hall, 7:30 p.m.



Photo by Sanay Dorr

# Newspeak

Volume 3, Number 23

Tuesday, February 3, 1976